

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"20030063556".pn.	USPAT	OR	OFF	2007/05/15 20:55
L2	0	"200300063556".pn.	USPAT	OR	OFF	2007/05/15 20:55
L3	2	peak adj power and espar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 20:59
S84	33	(chip near4 interleav\$3) and ofdm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/14 08:58
S85	2085	375/261	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S86	45	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (peak with power)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S87	3	S86 and S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S88	44	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (quadrature) and "in-phase"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S89	1113	oFDM with (channel adj estimat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09

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S90	88	oFDM with (channel adj estimat\$4) and mapp\$3 with subcarrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S91	4	oFDM with (channel adj estimat\$4) with mapp\$3 with subcarrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S92	7	oFDM with (channel adj estimat\$4) same mapp\$3 with subcarrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S93	0	((ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and ((quadrature or "in-phase") with (zero or "0"))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:09
S94	467	375/98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S95	2	((ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("demapping" or (de adj mapp\$3)) and ((quadrature or "in-phase") with (zero or "0"))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S96	2829	375/347	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S97	2085	375/261	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

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S98	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S99	223	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 0	1	S90 and S99	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 1	1180	375/298	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 2	1	10/070549	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 3	0	ofdm with mapping with "re-mapping"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 4	2	"5786844".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 5	2	"5179578".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

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S10 6	28	ofdm with mapping with "de-mapping"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 7	28052	kazumi.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 8	20	kazumi.in. and ofdm.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S10 9	22	sato.in. and mapping.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 0	3	kazumi.in. and mapping.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 1	41	(ofdm or ("multi-carrier") or (multi adj carrier)) with mapp\$3 with ("de-mapping" or (de adj mapp\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 2	5	(ofdm or ("multi-carrier") or (multi adj carrier)) with mapp\$3 with ("de-mapping" or (de adj mapp\$3)) and (peak with power)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 3	21	"727885"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

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S11 4	2	"5761190".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 5	5	ofdm and arq and (PAR or pmepr) and FEC	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 6	40	ofdm with arq	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 7	72	ofdm same arq	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 8	5	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (PAR or PMEPR)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S11 9	2	ofdm same arq and (PAR or pmepr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 0	8	ofdm and arq and (PAR or pmepr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 1	2	"5319672".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

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S12 2	17	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (PAR or PMEPR or (peak adj power))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 3	45	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and peak with power	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 4	76	(ofdm or ("multi-carrier") or (multi adj carrier)) same mapp\$3 same ("de-mapping" or (de adj mapp\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 5	223	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 6	45	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (peak with power)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 7	5	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (peak with power with (reduction or suppression))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 8	5	S86 and S96	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S12 9	1	((ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (quadrature) and "in-phase"). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10

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S13 0	2	S86 and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 1	145	(ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("de-mapping" or (de adj mapp\$3)) and (quadrature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 2	2	"6058146".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 3	11	((ofdm or ("multi-carrier") or (multi adj carrier)) and mapp\$3 and ("demapping" or (de adj mapp\$3)) and (((quadrature or "in-phase") with (zero or "0")) or QPSK)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 4	38	(chip near4 interleav\$3) and ofdm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/15 18:10
S13 5	10	"1211835"	USPAT	OR	OFF	2007/05/15 18:14
S13 6	1	"5179578".pn.	USPAT	OR	OFF	2007/05/15 18:19

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"peak power" espar

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that case, the **ESPAR** can reduce the **peak power** of ... that the **peak power** of **ESPAR** is much less than the conventional one. Especially, when the number of ...

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We propose a new method called **ESPAR**. (Expansion of the signal. Space for Peak to Average ratio. Reduction) in order to reduce the **peak power**. **ESPAR** ...

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[Research \(keywords\) Wireless Ad Hoc Network Array Signal ...](#)

J. Cheng, Y. Kamiya and T. Ohira, "Adaptive beamforming of **ESPAR** antenna using ... A.

Maeda, T. Fujii, Y. Kamiya and Y. Suzuki, "**Peak Power** Reduction Using ...

www.tuat.ac.jp/~kamiya/research_e.htm - 14k - [Cached](#) - [Similar pages](#)

[Block segmentation procedure for reduction of peak-to-average ...](#)

"A Method to Reduce the **Peak Power** with Signal Space Expansion (**ESPAR**) for OFDM System". Vehicular Technology Conference Proceedings 2000, IEEE 51.sup.st ...

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[PDF] [Chapter 19 REDUCING PAR AND PICR OF AN OFDM SIGNAL](#)

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peak power with signal space expansion (**ESPAR**) for OFDM system," in IEEE. Vehicular Technology Conference, pp. 405-409, 2000. ...

www.springerlink.com/index/v02x26686n4m8635.pdf - [Similar pages](#)

[Science Links Japan | A Study on Distance in OFDM Symbols using ...](#)

Abstract;We have already proposed **ESPAR**(Expansion of the signal Space for Peak to Average ratio Reduction) which is a **peak power** reduction scheme for the ...

sciencelinks.jp/j-east/article/200021/000020002100A0811678.php - 7k - Supplemental

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[PDF] [COMMISSION C : Radio Signals and Systems \(Nov. '01 - Oct. '04\)](#)

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Fujii, T. and M. Nakagawa [2003], **Peak power** reduction for MC-CDMA using cluster ... the MUSIC algorithm were found applicable to the **ESPAR** system [Plapous, ...

www.rish.kyoto-u.ac.jp/ursi/report/RPT05/PDF/C05.pdf - [Similar pages](#)

[November 2000](#)

... that were optimized for **peak power**, and were inefficient at lower output ... He had an **Espar** Combo Kit. He would brag about shutting off his engine, ...

www.landlinemag.com/Archives/2000/nov2000/equipment_Economy.html - 17k -

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[PDF] [Peak-to-Average Ratio of CDMA Systems](#)

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[5] Sumasu, A., et al., "A Method to Reduce the **Peak Power** with Signal Space Expansion. (**ESPAR**) for OFDM System," IEEE 51st Vehicular Technology Conf. ...
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the largest suppliers in North America is **Espar** Heater Systems, ... using off-**peak power**, which removes gas and oil from the generating mix). Further, more ...
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multicarrier "symbol pattern"

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The carriers are used for transmitting information input to the **multicarrier** transmitter. More specifically, a certain baseband **symbol pattern** or sequence ...

www.freepatentsonline.com/EP1368917.html - 43k - [Cached](#) - [Similar pages](#)

Allocation of pilot signals for multicarrier transmission - Patent ...

A transmitter for **multi-carrier** transmission according to claim 1, wherein the pilot symbol allocator changes the length of a pilot **symbol pattern** based on ...

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[Paper] A Pattern Recognition Approach for OFDM Frame ...

This paper presents a novel approach for a **multi-carrier** software radio ... a pilot **symbol pattern** inserted before the start of an OFDM data frame. ...

www.actapress.com/PDFViewer.aspx?paperId=15128 - [Similar pages](#)

(WO/2002/005467) MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER ...

Title:, **MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER SUPPRESSING METHOD** ... in decreasing order of the peak power from the **symbol pattern** of the space.

...
www.wipo.org/pctdb/en/wo.jsp?wo=2002005467 - 39k - [Cached](#) - [Similar pages](#)

Assembly for franking postal matter, and multi-carrier shipping ...

Assembly for franking postal matter, and **multi-carrier** shipping system - US ... The data that assign the representative **symbol pattern** to a defined date are ...

www.patentstorm.us/patents/5699258-description.html - 52k - [Cached](#) - [Similar pages](#)

Communication method, base station and terminal apparatus - US ...

A communication method for carrying out communication in a **multi-carrier** format ... data generating circuit 101 to a **symbol pattern** storing circuit 102. ...

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EETimes.com - Wireless Infrastructure: OFDM shoulders heavy RF traffic

Basically, OFDM is the concept of **multicarrier** communications, ... A known **symbol pattern** is multiplied with the transmitted data to reduce the peak power ...

www.commsdesign.com/design_corner/showArticle.jhtml?articleID=16502669 - 54k - [Cached](#) - [Similar pages](#)

EP1211835 Matsushita european software patent - Multi-carrier ...

[0095] Thus, the **multi-carrier** communication apparatus of this embodiment allows accurate decision of a **symbol pattern** including symbols with amplitude "0". ...

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[PDF] Pilot-symbol aided channel estimation in spatially correlated ...

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A novel pilot-**symbol pattern** is firstly proposed for this mul- ... **multi-carrier** systems the receive signal after **multi-carrier** ...

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[esp@cenet claims view](#)

demodulating means for obtaining reception data from the decided received **symbol**

pattern. 16. A **multi-carrier** communication apparatus comprising: ...

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multicarrier "symbol pattern" quadrature

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[Paper] A Novel Non Data-Aided Symbol Timing Recovery for OFDM Systems

An other method is to transmit training symbols (known **symbol pattern** used to ... component and the imaginary part represents the **quadrature** component. ...

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Multi-carrier communication device and peak power suppressing ...

[0134] Next, an example of **symbol pattern** decision operation by signal decision ... component and **quadrature** component set to "0", allowing **multi-carrier** ...

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TRANSMISSION POWER CONTROL METHOD FOR OFDM-CDMA SYSTEM AND ...

[0002] **Multicarrier** modulation schemes have become the focus of attention as ... [0064] A pilot **symbol pattern** generator 77a outputs the position vector ...

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esp@cenet claims view

demodulating means for obtaining reception data from the decided received **symbol pattern**. 16. A **multi-carrier** communication apparatus comprising: ...

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EP1211835 Matsushita european software patent - Multi-carrier ...

[0028] A pre-conversion **symbol pattern** is converted by pattern conversion ... and **quadrature** component set to "0", and can thereby carry out **multi-carrier** ...

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[PDF] Robust non data-aided symbol synchronization technique for OFDM ...

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to transmit training symbols (known **symbol pattern** ... of S(t) represent the in phase and the **quadrature** components respectively. ...

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[PDF] On Diversity Reception Of Narrowband 16 STAR-QAM In Fast Rician ...

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In employing the four-**symbol pattern** technique described ... [7] P. B. Kennington, R. J. Wilkinson, and J. D. Marvill, "A **multi-carrier** ...

ieeexplore.ieee.org/iel3/25/14240/00653066.pdf?arnumber=653066 - [Similar pages](#)

Frequency diversity transmitter and receiver - US Patent 5504783

In the case of **multicarrier**, signals transmitted from a given station with ... of the **symbol pattern** candidates from one point in time to the next, ...

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[0068] A pre-conversion **symbol pattern** is converted by pattern conversion ... and **quadrature** component set to "0", and can thereby carry out **multi-carrier** ...
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MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER SUPPRESSING ...

received **symbol pattern** deciding means for deciding a received **symbol** ... and **quadrature** component set to "0", and can thereby carry out **multi-carrier** ...
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Basically, OFDM is the concept of **multicarrier** communications, ... the transmitted data to reduce the **peak** power and the same **symbol pattern** is multiplied ...
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[Paper] A Pattern Recognition Approach for OFDM Frame ...

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EP1211835 Matsushita european software patent - Multi-carrier ...

Software Patent: **Multi-carrier** communication device and **peak** power suppressing method ... [0028] A pre-conversion **symbol pattern** is converted by pattern ...
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EP838106 Ericsson european software patent - Dual mode satellite ...

The satellite's **multi-carrier** power amplifiers thus need to allocate a smaller ... a known **symbol pattern** into said coded information for transmission. ...
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Synchronization of OFDM signals - US Patent 6111919

Multicarrier modulation transmission system with variable delay ... computes cross-correlation values between a stored temporal **symbol pattern** and a ...
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Frequency diversity transmitter and receiver - US Patent 5504783

In the case of **multicarrier**, signals transmitted from a given station with ... of the **symbol pattern** candidates from one point in time to the next, ...
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The concept of **multicarrier** (MC) communications uses a form of FDM ... **peak** powers. A known **symbol pattern** is multiplied with the transmitted data to ...
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MULTI-CARRIER COMMUNICATION DEVICE AND PEAK POWER SUPPRESSING METHOD ... of at least one of the in-phase component and **quadrature** component set to "0"; and ...
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SUPPRESSING METHOD**

Inventor: SUMASU ATSUSHI (JP); KATO OSAMU (JP); Applicant: MATSUSHITA ELECTRIC IND CO LTD (JP)
(+4)

EC: H04L27/26M2; H04L27/34C1

IPC: **H04L27/26; H04L27/34; H04L27/26** (+2)

Publication info: **EP1211835** - 2002-06-05

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1 OFDM broadcast wave receiver

Inventor: YAMAUCHI KEIICHI (JP)

Applicant: PIONEER ELECTRONIC CORP (JP)

EC: H04H1/00D4; H04L27/00M; (+1)

IPC: *H04H1/00; H04L27/00; H04L27/26* (+5)

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Inventor: MURAKAMI YUTAKA (JP); ORIHASHI
MASAYUKI (JP); (+2)

Applicant: MATSUSHITA ELECTRONICS CORP (JP)

EC: H04L27/34

IPC: *H04L27/34*; *H04L27/34*; (IPC1-7): H04L27/34

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...of the OFDM signal for a **multicarrier** system with $N = 8$ and $N \dots 16$ 2.5 Scheme of the **multicarrier** system based on IDFT/DFT...of the OFDM signal for a **multicarrier** system with $N = 3$ subcarriers...16 and for the training **symbol pattern** $p = [1, 1, 1, 1]T \dots$
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Wright, David A. / Jue, Reginald (NMI) / Linsky, Stuart T. / Nivens, Dennis A., EUROPEAN PATENT, Apr 2001

(BACKGROUND OF THE INVENTION) This invention relates to processing communication satellite systems and more particularly relates to coordination between the uplinks and downlinks of such systems. A multibeam processing satellite system requires a comprehensive and consistent approach to its

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☐ 3. [Uplink transmission and reception techniques for a processing communication satellite](#)

Wright, David A. / Linsky, Stuart T. / Wilcoxson, Donald C. / Perahia, Eldad / Caso, Gregory S., EUROPEAN PATENT APPLICATION, Apr 2001

Uplink transmission and reception techniques for a processing satellite including one or more earth terminals 400 connected to receive ATM data cells. One or more encoders 418 are connected to coordinate four data cells with an error correction code to ...

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Wright, David A. / Linsky, Stuart T. / Wilcoxson, Donald C. / Perahia, Eldad / Caso, Gregory S., UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Oct 2002

...or EOW) signaling is based on usage of a traffic slot in a ZH type channel and has a burst structure comprised of a 320 **symbol pattern** derived from a maximal length shift

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DENT, Paul W., PATENT COOPERATION TREATY APPLICATION, Jan 1997

...downlink direction (base to mobile), which leads to problems of high **peak** power requirements from the mobile phone in a satellite system...than the corresponding downlink TDMA formats, thus reducing the **peak**-to-mean power ratio needed in the mobile terminal. When practicing...

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□ 7. [Frequency diversity transmitter and receiver](#)

Tomisato, Shigeru / Suzuki, Hiroshi, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 1996

...comprising a low-pass filter 72 and a **quadrature** modulator 73. Mutually different carrier frequencies are supplied to the **quadrature** modulators 73. A switching circuit 71...coded chip signals are modulated by the **quadrature** modulators 73 and combined by the combiner...use a training signal with a single **peak** autocorrelation function. The training...

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A method to reduce the peak power with signal space expansion (ESPAR) for OFDM system

Sumasu, A. Ue, T. Uesugi, M. Kato, O. Homma, K.

Matsushita Commun. Ind. Co. Ltd., Kanagawa, Japan;

This paper appears in: [Vehicular Technology Conference Proceedings, 2000. VTC 2000 IEEE 51st](#)

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Volume: 1

On page(s): 405 - 409 vol.1

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Location: Tokyo

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Abstract

OFDM (orthogonal frequency division multiplexing) is an effective technique for high data transmission. However, the OFDM system has a problem with the peak to average power ratio very high. A high PAPR can cause severe distortion when transmitted through a nonlinear device because extreme power amplifier specification is required, high power consumption and high cost are required. We propose a new method called ESPAR (Expansion of the signal Space for Power Reduction) in order to reduce the peak power. ESPAR expands the signal space by modulating all subcarriers and not modulating the other subcarriers. The proposed system selects the subcarriers with low signal power in the expanded signal space and transforms data sequences to the subcarriers. The characteristics of the proposed system by computer simulation and show the advantage of the proposed system.

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